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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,180	07/21/2003	Antonius Johannes Van Der Net	081468-0305146	4722
909	7590 06/06/2005		EXAMINER	
PILLSBUR	RY WINTHROP SHAW	FULLER, RODNEY EVAN		
P.O. BOX 1	0500		ART UNIT	
MCLEAN,	MCLEAN, VA 22102			PAPER NUMBER
			2851	
			DATE MAILED: 06/06/200	٢.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	10/623,180 Examiner	VAN DER NET ET AL.  Art Unit			
,					
The MAILING DATE of this communication and	Rodney E. Fuller	2851			
The MAILING DATE of this communication apperent of the second for Reply	ears on the cover sheet with the co	Trespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from t cause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 21 Ju	lv 2003.				
<u> </u>	action is non-final.				
3) Since this application is in condition for allowan	,—				
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-13 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1 and 9-13 is/are rejected.</li> <li>7)  Claim(s) 2-8 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>					
Application Papers					
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 21 July 2003 is/are: a)☐ Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the order of of the	☐ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
PRIMARY EXAMINER					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (				
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s)/Mail Da  5) Notice of Informal Pa  6) Other:	te atent Application (PTO-152)			

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#### **DETAILED ACTION**

### **Drawings**

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the drawings are informal. Specifically, the lines and numbering are unclear and "fuzzy" (i.e., lacks clarity and definition). The drawings appear to be a poorly transmitted fax copy of the drawings. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 9-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Van Schaik, et al. (US 6,828,569)

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art

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under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1 and 11-13. Van Schaik discloses "an illuminator configured to provide a projection beam of radiation (Fig. 1, ref.# PB, column 5, line 56); a support structure (Fig. 1, ref.# MT) configure to support a patterning device (Fig. 1, ref.# MA), the patterning device configured to pattern the projection beam according to a desired pattern; a substrate table (Fig. 1, ref.# WT) configured to hold a substrate (Fig. 1, ref.# W); a projection system (Fig. 1, ref.# PL) configured to project the patterned beam onto a target portion of the substrate; and at least one purge gas supply system (column 7, lines 1-3) configured to provide a purge gas to at least part of the lithographic projection apparatus (Fig. 2, ref.#2), the at least one purge gas supply system comprising: a purge gas mixture generator (Fig. 2, ref.# 4) comprising a moisturizer configured to add moisture to a purge gas (column 7, lines 20-21), the purge gas mixture generator configured to generate a purge gas mixture, which purge gas mixture comprises at least one purge gas and the moisture (column 7, lines 20-21); and a purge gas mixture outlet connected to the purge gas mixture generator configured to supply the purge gas mixture to the at least part of the lithographic projection apparatus (Fig. 2, ref.# 5, column 7, lines 3-5)." (Note: The purge gas supply (ref.# 4) must contain a "moisturizer" in order to provide the gas mixture with the added water vapor.)

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Regarding claim 9, Van Schaik discloses "wherein the moisture includes water vapor." (column 7, lines 20-21)

Regarding claim 10, Van Schaik discloses "wherein the purge gas mixture contains between at least 20% and not more than 70% relative humidity water vapor." (column 9, lines 39-40)

## Allowable Subject Matter

4. Claims 2-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Somekh (US 6,394,109) and Van Schaik, et al. (US 6,724,460) each disclose adding water vapor into a lithographic optical system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney E. Fuller whose telephone number is 571-272-2118. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney E Fuller Primary Examiner Art Unit 2851

June 1, 2005